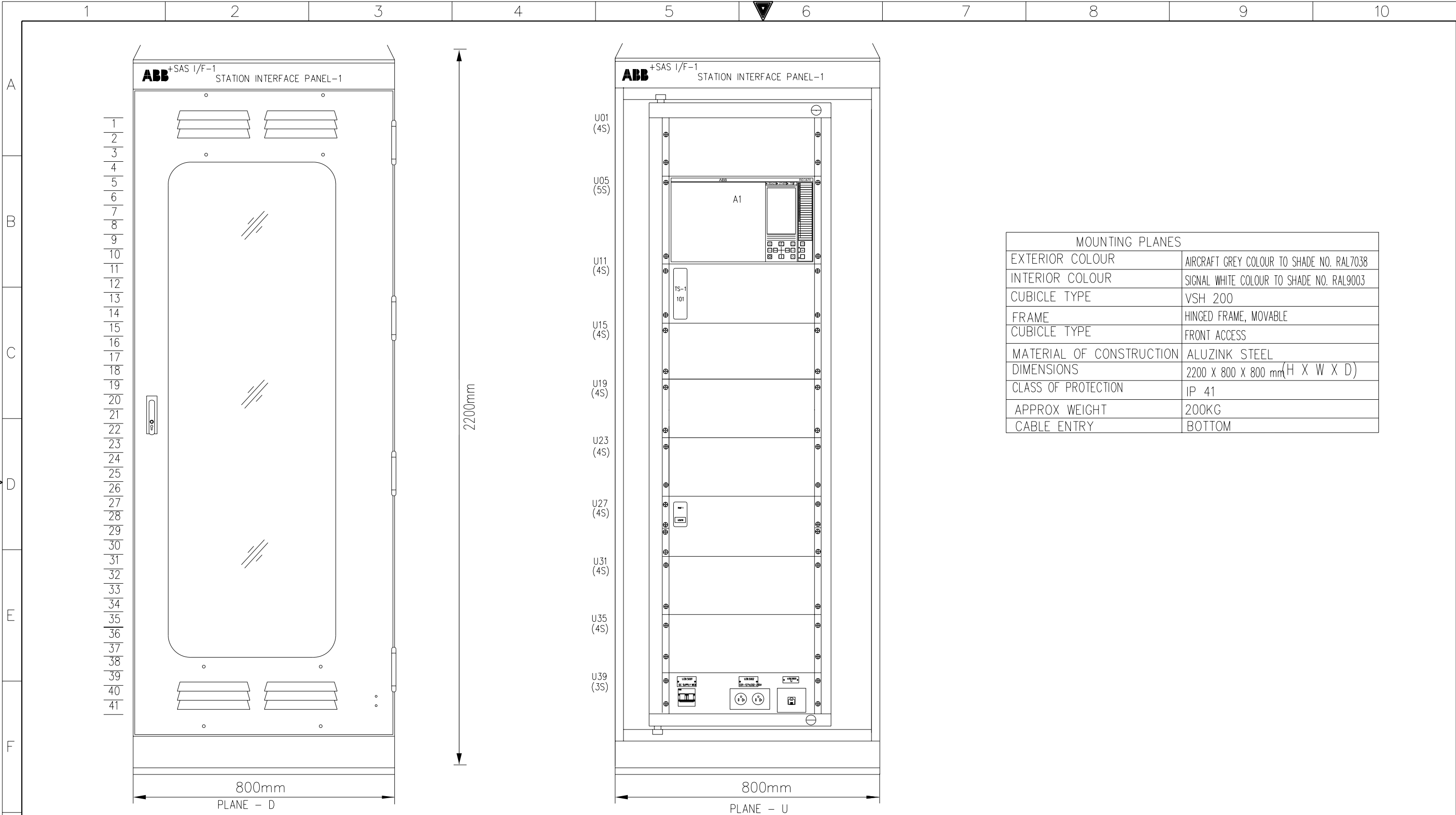


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NG/D2-D (2012/01)

DMS VECTOR NGD200



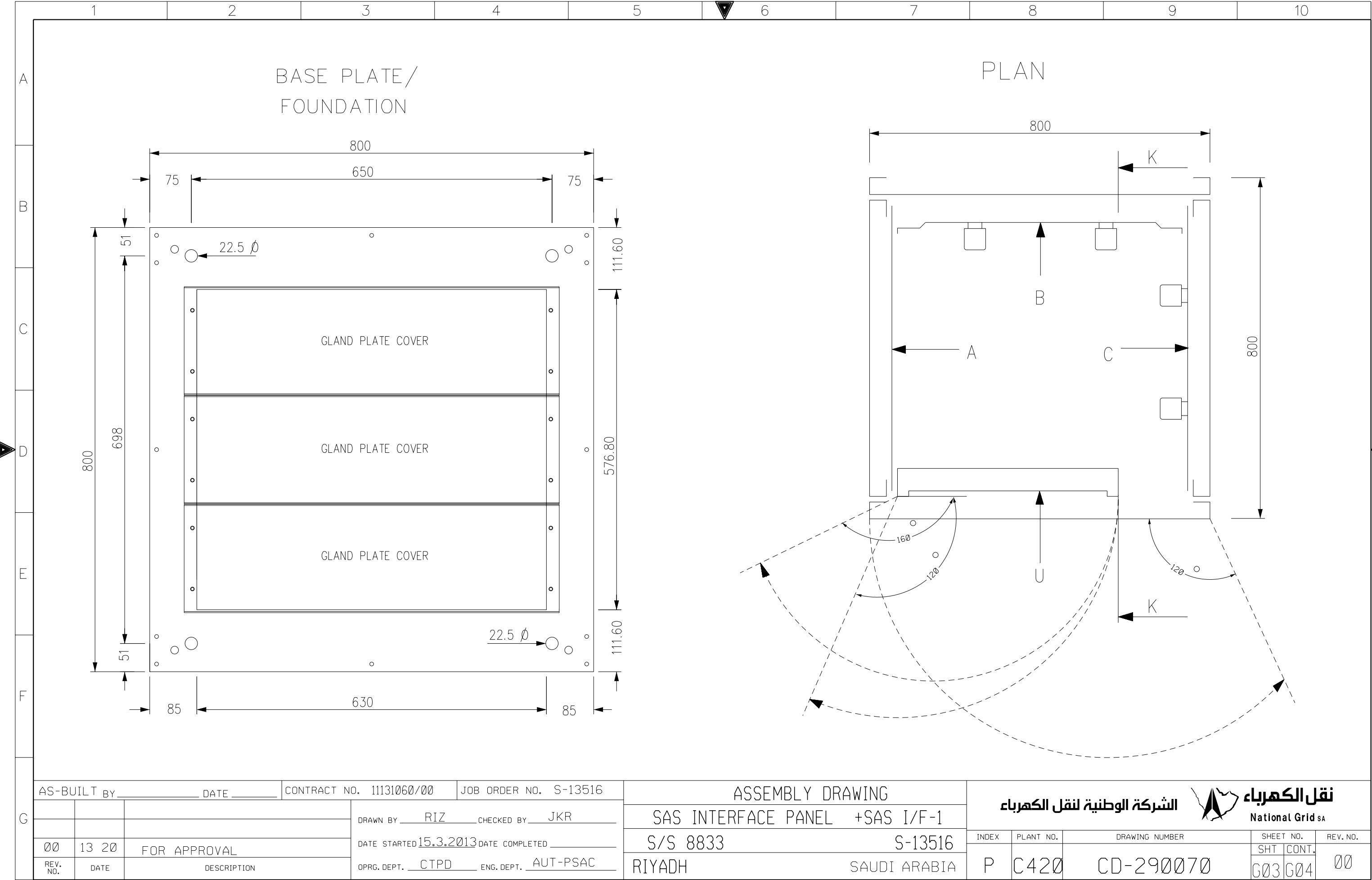
MOUNTING PLANES	
EXTERIOR COLOUR	AIRCRAFT GREY COLOUR TO SHADE NO. RAL7038
INTERIOR COLOUR	SIGNAL WHITE COLOUR TO SHADE NO. RAL9003
CUBICLE TYPE	VSH 200
FRAME	HINGED FRAME, MOVABLE
CUBICLE TYPE	FRONT ACCESS
MATERIAL OF CONSTRUCTION	ALUZINK STEEL
DIMENSIONS	2200 X 800 X 800 mm(H X W X D)
CLASS OF PROTECTION	IP 41
APPROX WEIGHT	200KG
CABLE ENTRY	BOTTOM

G

AS-BUILT BY _____		DATE _____		CONTRACT NO. 11131060/00		JOB ORDER NO. S-13516	
				DRAWN BY RIZ		CHECKED BY JKR	
00	13 20	FOR APPROVAL		DATE STARTED 15.3.2013		DATE COMPLETED _____	
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ASSEMBLY DRAWING					
SAS INTERFACE PANEL +SAS I/F-1					
S/S 8833			S-13516		
RIYADH			SAUDI ARABIA		

الشركة الوطنية لنقل الكهرباء				نقل الكهرباء	
				National Grid sa	
INDEX	PLANT NO.	DRAWING NUMBER		SHEET NO.	
P	C420	CD-290070		SHT	CONT.
				G01	G02
				00	



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C										
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E	CLIENT : SAUDI ELECTRICITY COMPANY CENTRAL OPERATING AREA									
F	PROJECT : Construction Of New 132/13.8kV AT SOUTH WEST UNAIZAH									
	SUBSTATION : S/S 8833									
	CONTRACT NO. : 11131060/00									
	TITLE : LIST OF APPARATUS +SAS I/F-1									
G	AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131060/00		JOB ORDER NO. S-13516		COVER SHEET		الشركة الوطنية لنقل الكهرباء National Grid sa	
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	REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC					

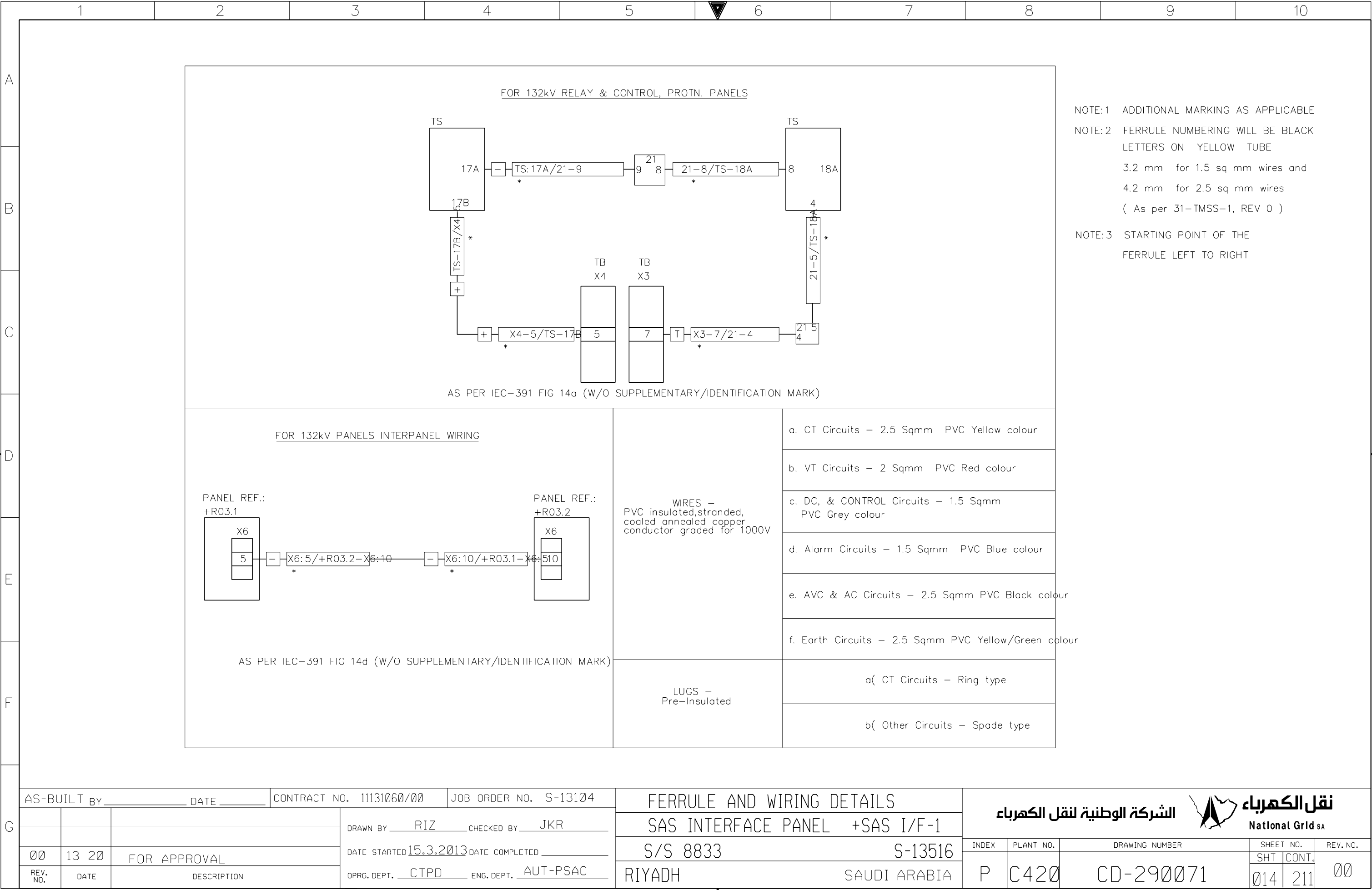
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A	SR. NO.	GA REF.	SCH. REF.	D E S C R I P T I O N		SHEET NO.	QTY.	TYPE	MAKE	ORDERING INFORMATION	COUNTRY OF ORIGIN		
				STATION INTERFACE PANEL-1									
	1	U05.5001	A1	STATION COMMON ALARM SWITCHING EQUIPMENT WITH FOLLOWING SPECIFICATION		291 TO 296	1	REC 670	ABB	1MRK 002814-AC	SWEDEN		
B				AUX : EL=90-250V DC									
				FREQ : 50/60HZ									
				BINARY INPUT : 14 NOS(PER CARD 16 INPUTS RL=110-125DC)									
C	2	U11.101	TS-1	TEST SWITCH FOR REC 670 (A1)		245	1	RTXP18	ABB	RK 926 115-AN	SWEDEN		
D	3	U27.101	74IF	DUAL TARGET RELAY (REVERSE FLAG) (A1 DC FAIL/SPARE)		245	1	RXSF1	ABB	RK 271 019 AN	SWEDEN		
				CONTACTS :1NO+2NC PER COIL									
				AUX.VOLT :1NO+2NC PER COIL									
E				FLAG :SELF RESET									
	4			MCB 2 POLE 6A, FOR DC SUPPLY WITH 2NC AUXILIARY CONTACT		216	1	S 282 UC-K6	ABB	GH S282 0164 R0377	GERMANY		
		U39.5001	Q1	Q1 IF+ SUPPLY				S2-H02		GH S270 1916 R0003			
F											FRANCE		
	5	U39.5002	C01	CONVENIENCE OUTLET 10A, 127V AC		211	1	USM45 &	LEGRAND	74140 & 74180			
			C02	CONVENIENCE OUTLET 10A, 220V AC				USMS45					
G			C1,C2	MINIATURE CIRCUIT BREAKER, 2 POLE, 10A FOR CONVENIENCE OUTLET WITH AUXILIARY SWITCH, 1NO + 1NC CONTACTS		211	2	S202-C10	ABB	2CDS 253 001 R0104	GERMANY		
								S2C-H11L		2CDS 200 936 R0001			
	6		C3	THERMOSTAT FOR SPACE HEATER, 5-60 C		211	1	SK 3110	RITTAL	SK 3110	THIWAN		
H	7	U39.5003	TJ	TELEPHONE JACK 1GANG 4WIRE		211	1	EDF410	EDISON	EDF410	SWEDEN		
	8		C7	ON/OFF SWITCH FOR SPACE HEATER		211	1	M2SS1-10B	ABB	1SFA 611 200 R1006			
I								MCBH-10		1SFA 611 605 R1101			
	9		DS	DOOR SWITCH FOR CONTROL OF CUBICLE INTERNAL ILLUMINATION LAMP		211	1	LS30P	ABB	1SBV 010213 R1202	SWEDEN		
J	10			INTERNAL ILLUMINATION CUBICLE LAMP SUITABLE FOR 127V AC, 60Hz SUPPLY, 20W		211	1	T-4	SUNON	SP-20W			
	11		SH	SPACE HEATER, 150W, 120V, 60Hz		211	1	MICA	GRUPPO	1FZEK 006 C001	ITALY		
K													
L	AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131060/00		JOB ORDER NO. S-13516		LIST OF APPARATUS		الشركة الوطنية لنقل الكهرباء نقل الكهرباء National Grid sa				
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			DATE STARTED 15.3.2013 DATE COMPLETED _____		S/S 8833 S-13516								
M	00	13 20	FOR APPROVAL		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		INDEX P	PLANT NO. C420	DRAWING NUMBER CD-290070	SHEET NO. SHT L01 CONT. L02	REV. NO. 00
	REV. NO.	DATE	DESCRIPTION										

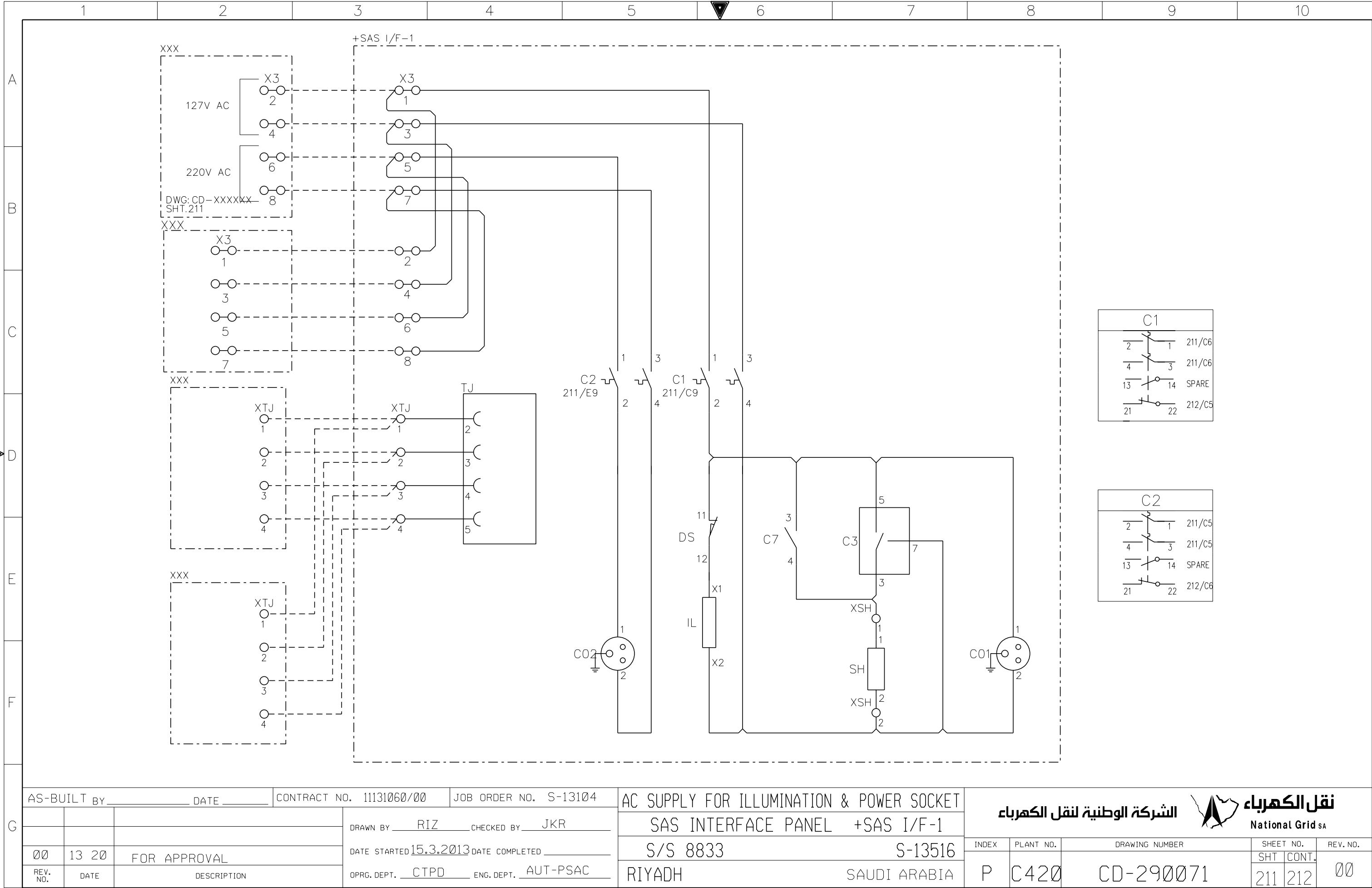
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			DATE STARTED <u>15.3.2013</u> DATE COMPLETED _____		RIYADH		SAUDI ARABIA		P C420 CD-290070																																																	
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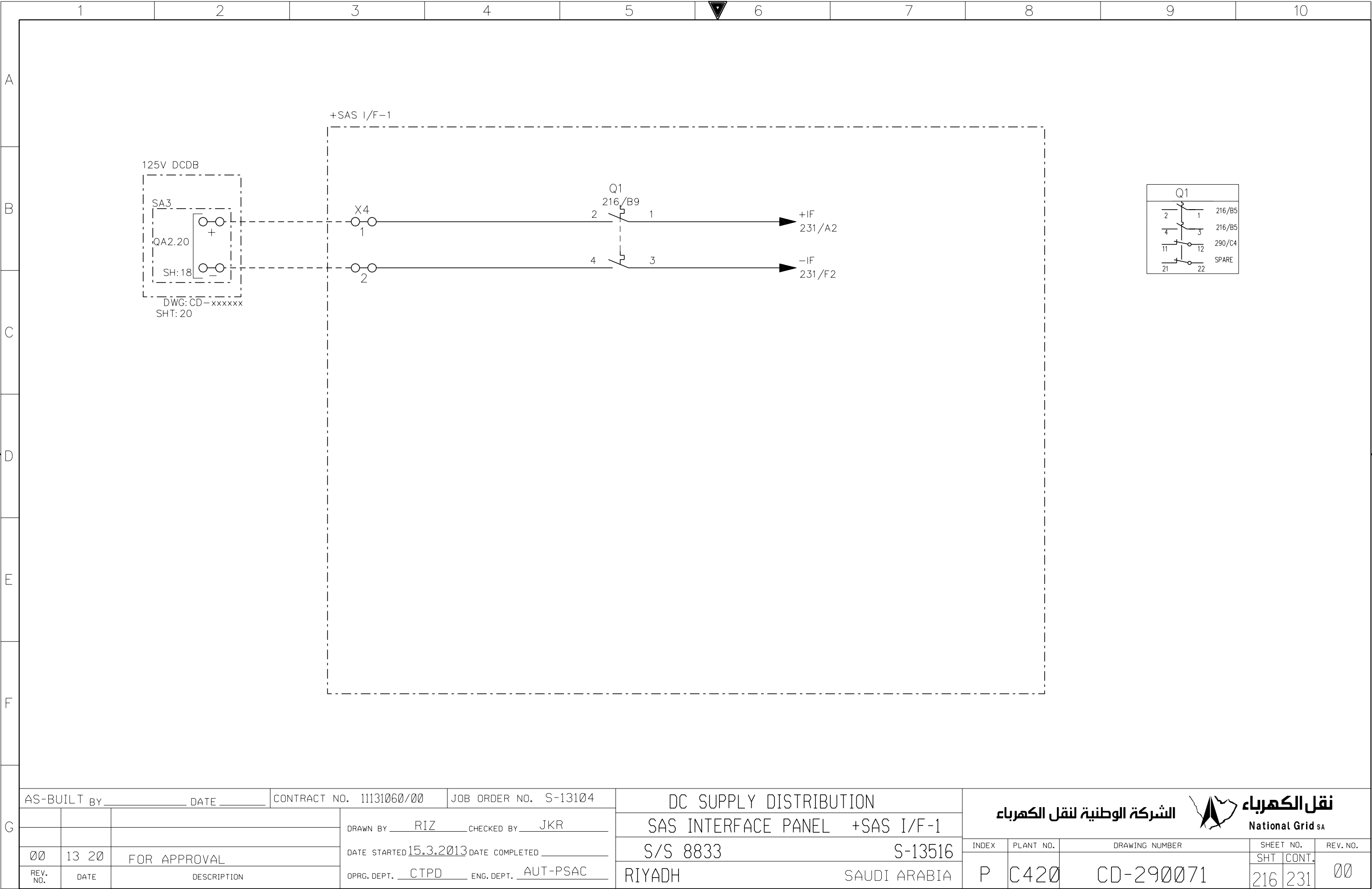
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	00	13 20	DATE STARTED 15.3.2013 DATE COMPLETED _____		RIYADH SAUDI ARABIA		CD-290071		P	C420
	REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		SHEET NO. SHT CONT.		REV. NO.	
			FOR APPROVAL				000 001		00	

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G	LEGENDS ±R1 ±R2 ±R3 ±IT FL BB RS± BB CBF± /CBF± DC SUPPLY – MAIN PROTECTION DC SUPPLY – SECONDARY PROTECTION DC SUPPLY – BACK UP PROTECTION DC SUPPLY – INTER TRIP DC SUPPLY – FLASHING CIRCUIT DC SUPPLY – BUS BAR – PROTECTION RESET DC SUPPLY – CBF PROTECTION R CR ECC LOCAL REMOTE RESET BUS – ALARM SYSTEM CONTROL ROOM ENERGY CONTROL CENTRE THE LOCATION OF CONTROLLED DEVICE ANY OTHER LOCATION NOT LOCAL ON OFF A T S CS CT LS LT LC LO RO CB NORMALLY OPEN AUXILIARY CONTACT CB NORMALLY CLOSED AUXILIARY CONTACT COMMON TEST POSITION SERVICE POSITION CLOSE IN SERVICE POSITION CLOSE IN TEST POSITION LOCAL SERVICE LOCAL TEST LOCAL CLOSE LOCAL OPEN REMOTE OPEN NOTES LABELS WHITE LABEL WITH BLACK LETTERING WILL BE PROVIDED FOR ALL MOUNTED APPARATUS EQUIPMENT IDENTIFICATION AND FUNCTION REFERENCE LABEL WILL BE PROVIDED FOR FRONT MOUNTED EQUIPMENTS OF THE PANEL AND EQUIPMENT IDENTIFICATION LABEL WILL BE PROVIDED FOR INTERNALLY MOUNTED EQUIPMENTS WIRING PVC INSULATED 600V GRADE 2.5 SQ.mm. YELLOW COLOURED FOR CT CIRCUITS 2.5 SQ.mm. RE COLOURED FOR VT CIRCUITS 1.5 SQ.mm. GREY COLOURED FOR DC SUPPLY, SCADA AND CONTROL CIRCUITS 1.5 SQ.mm. BLUE COLOURED FOR COMMON ALARM SIGNALS 2.5 SQ.mm. BLACK COLOURED FOR AVC AND AC CIRCUITS 2.5 SQ.mm. YELLOW/GREEN COLOURED FOR EARTHING CONNECTIONS FOLLOWING MARKERS SHALL BE PROVIDED ON FOLLOWING WIRES: + SIGN FOR DC + WIRE – SIGN FOR DC – WIRE LUGS A. CT CIRCUITS– RING TYPE B. OTHER CIRCUITS – SPADE TYPE FERULLING YELLO TUBE 3.2 mm FOR 1.5SQ mm WIRES AND 4.2 FOR 2.5 SQ mm WIRES (AS PER 31 – TMSS–1, RE.0)									

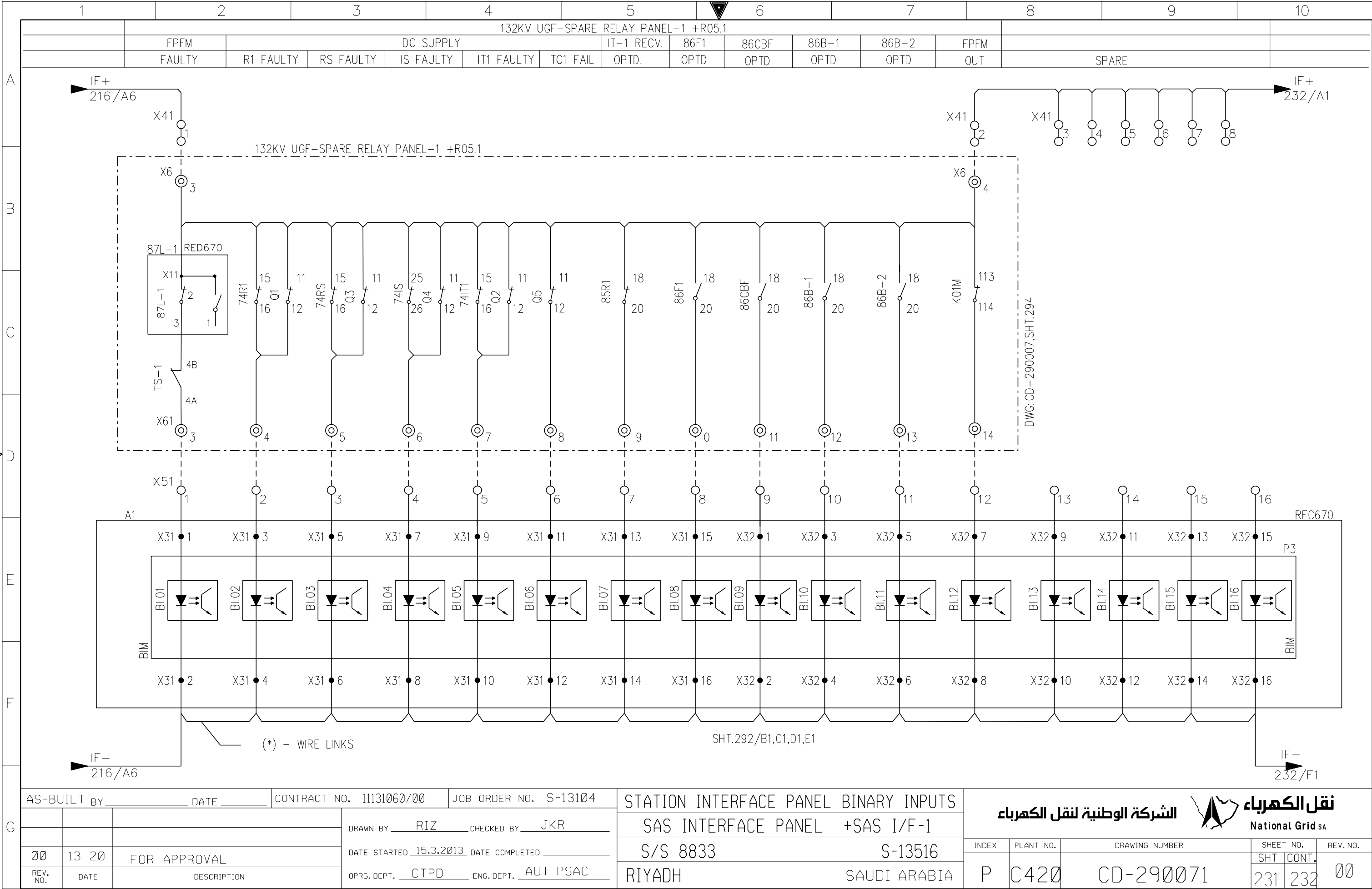


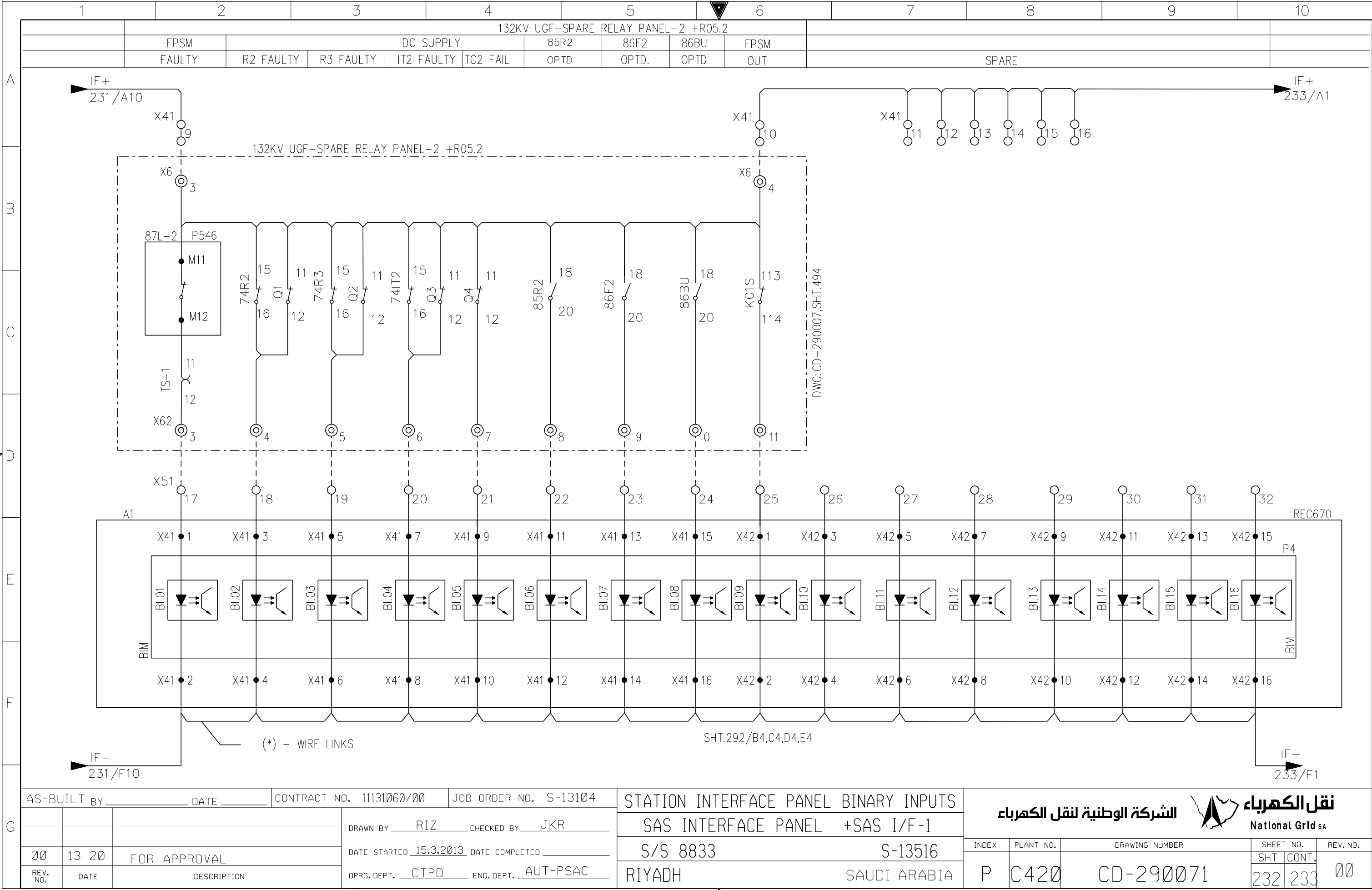


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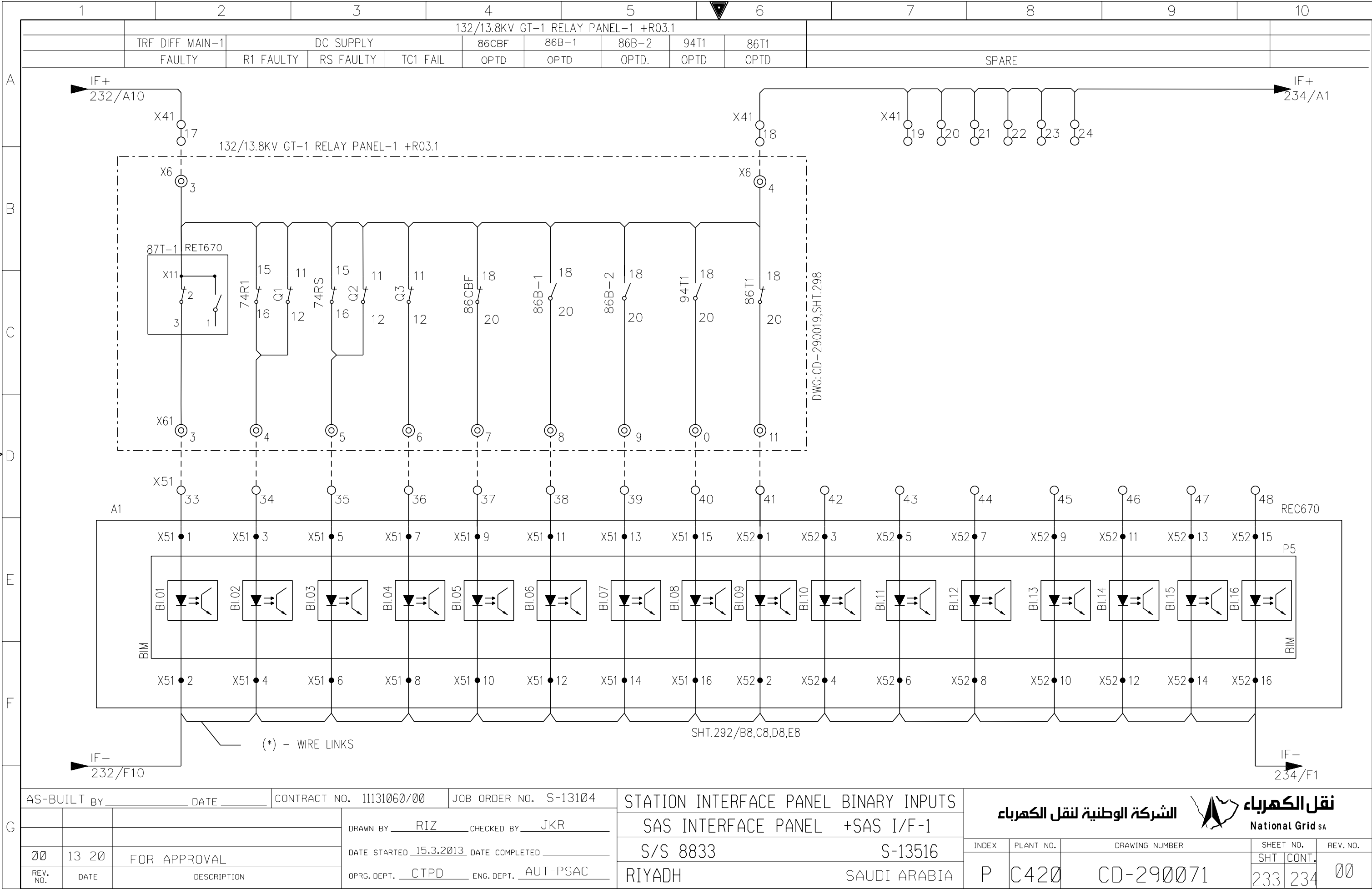


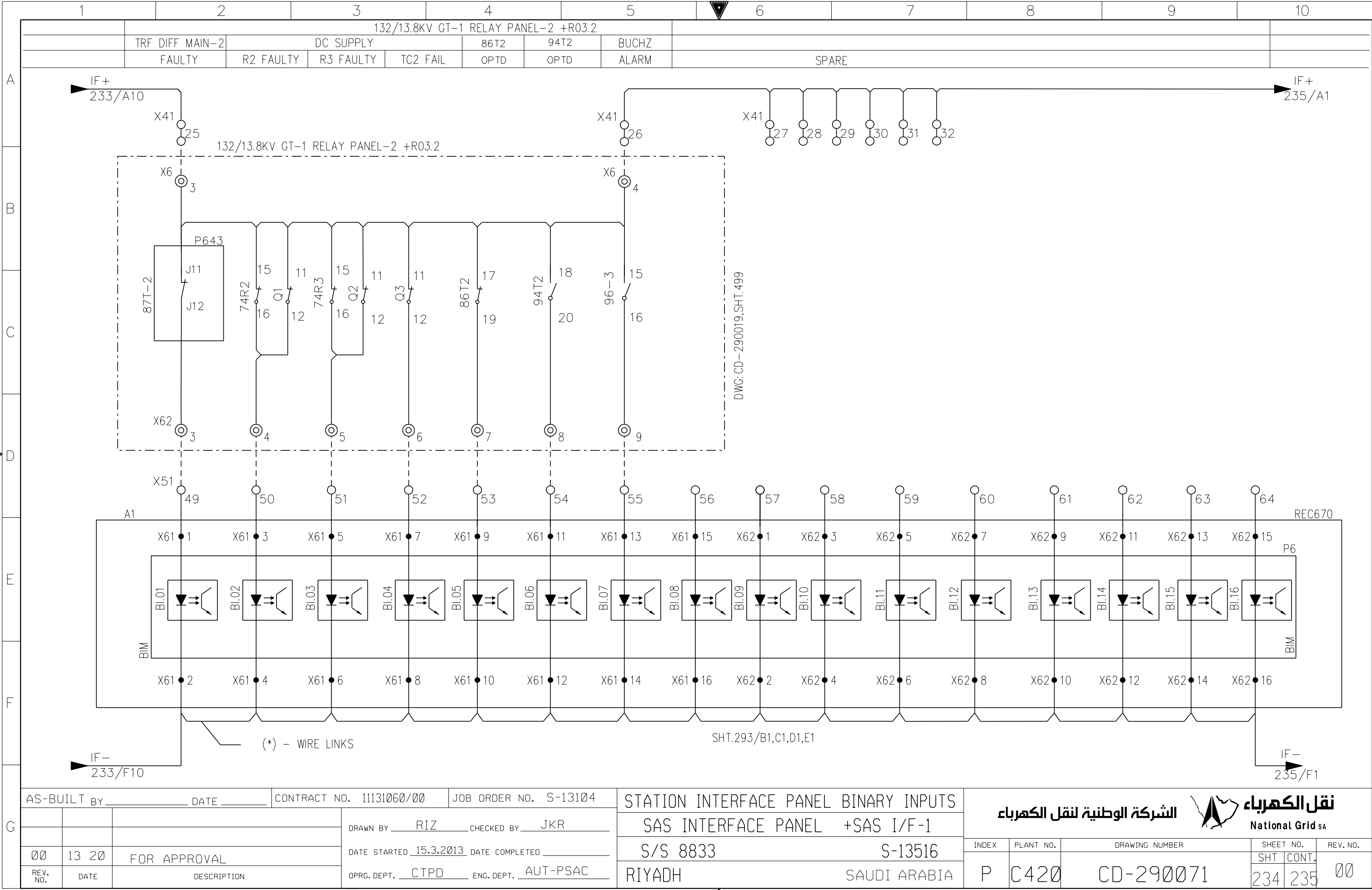
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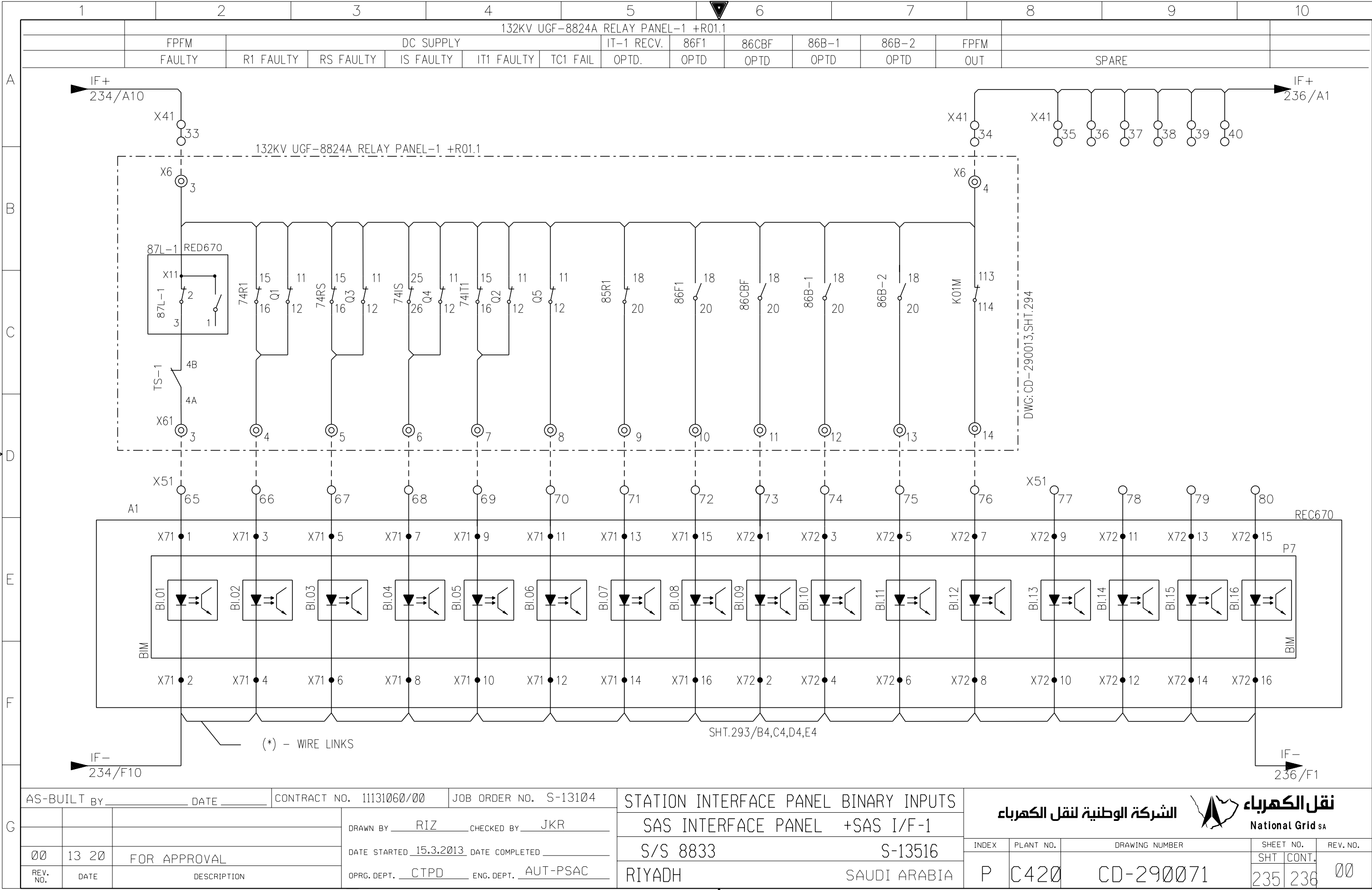


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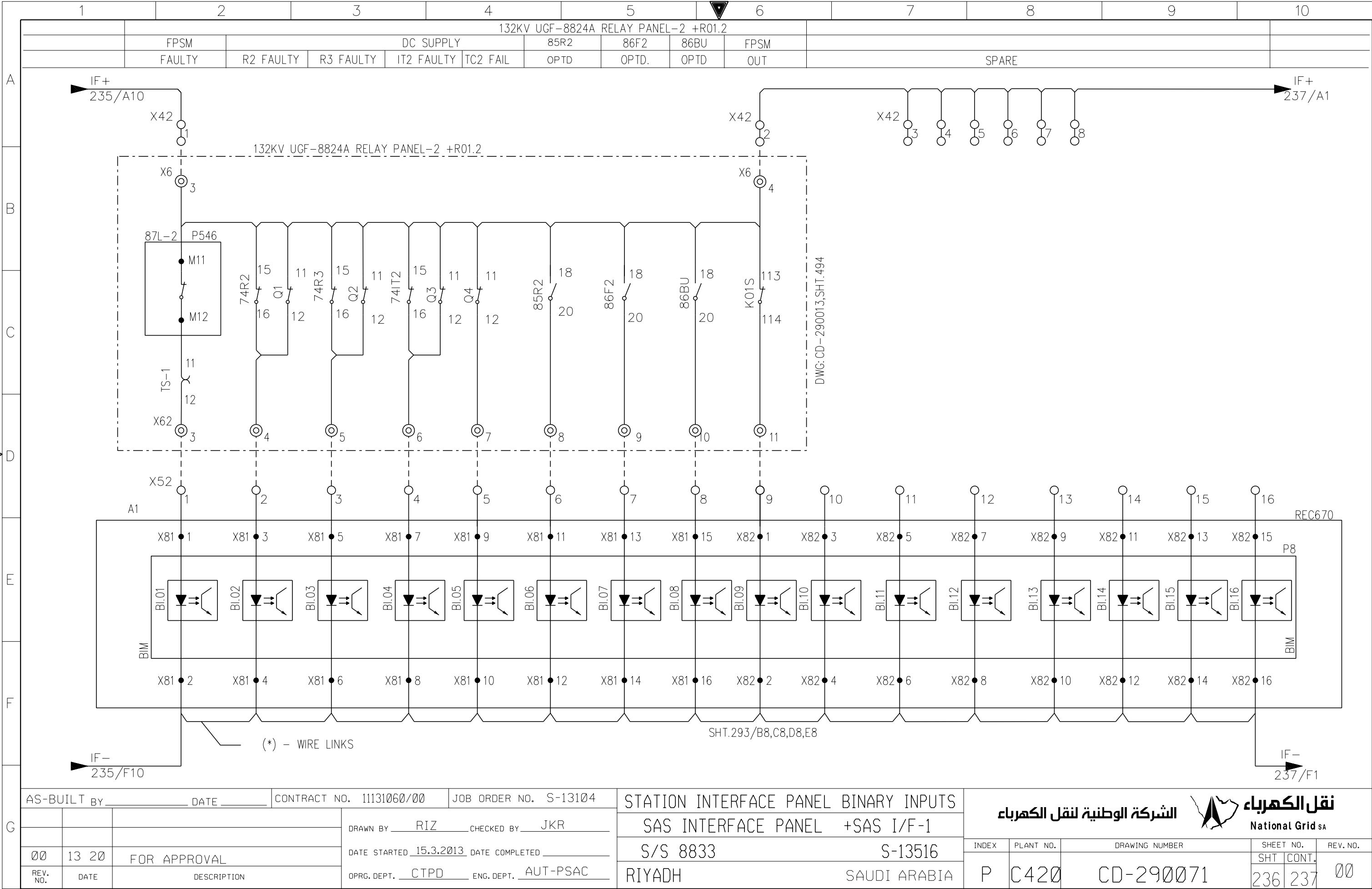


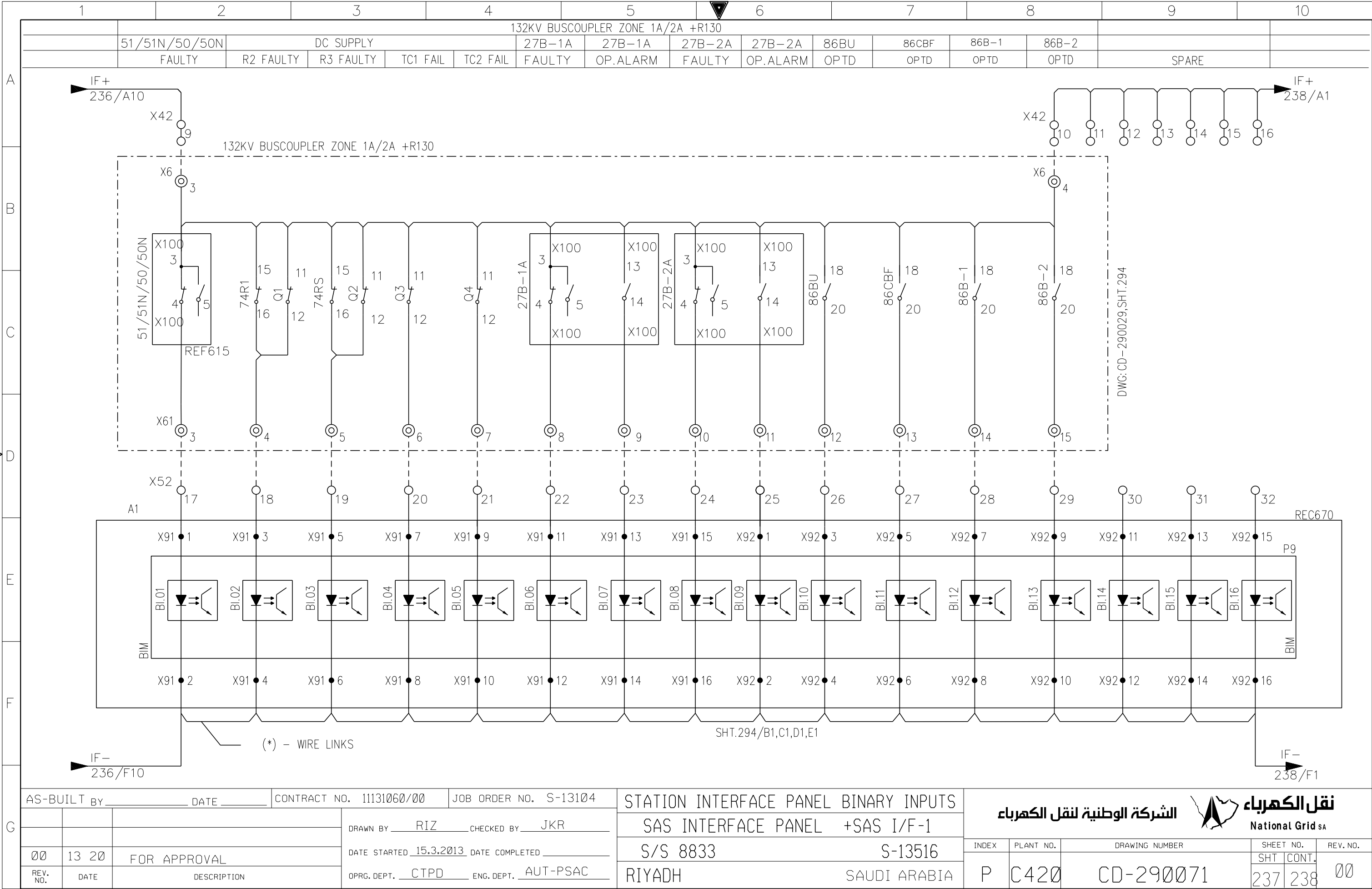


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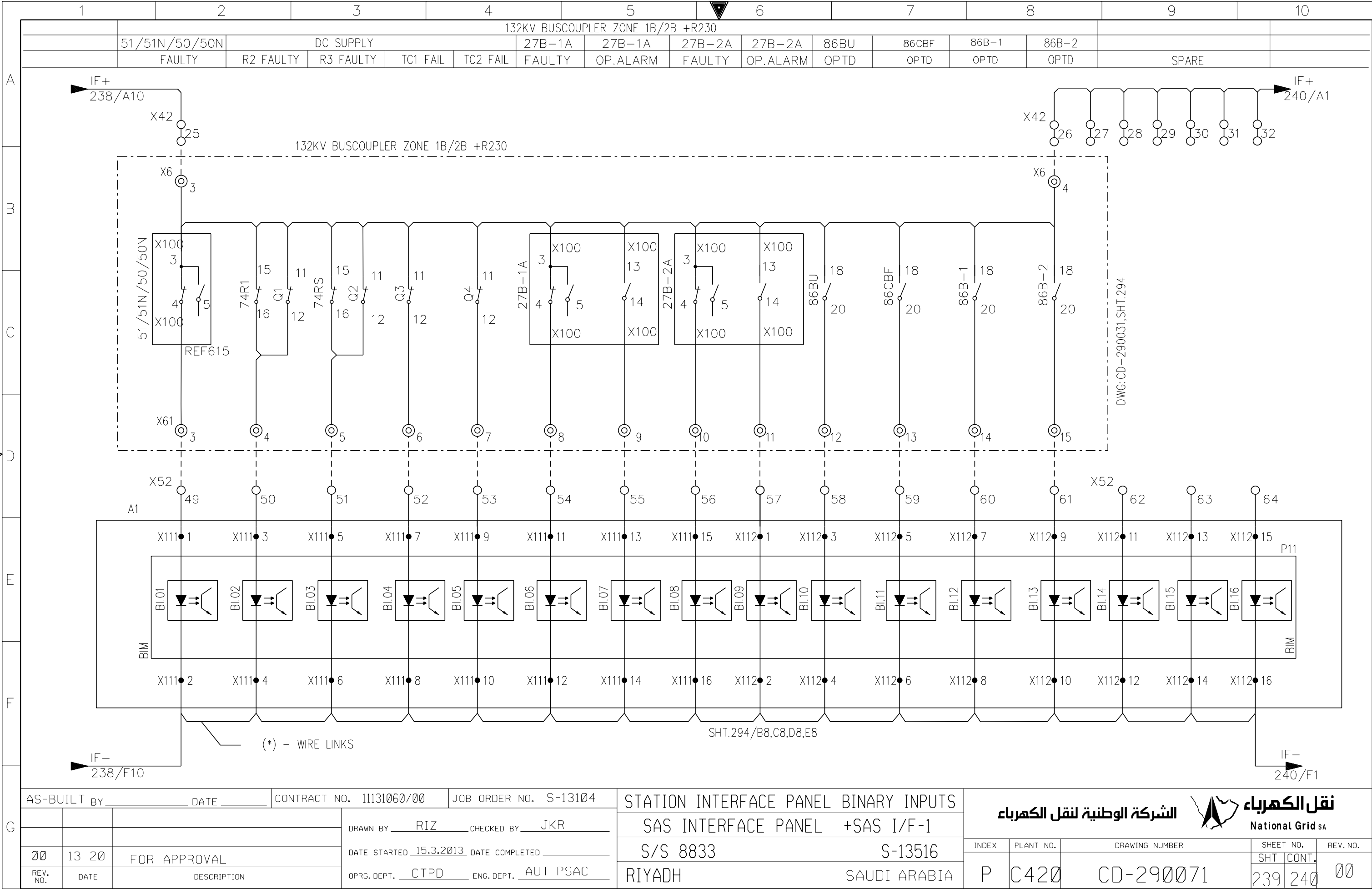


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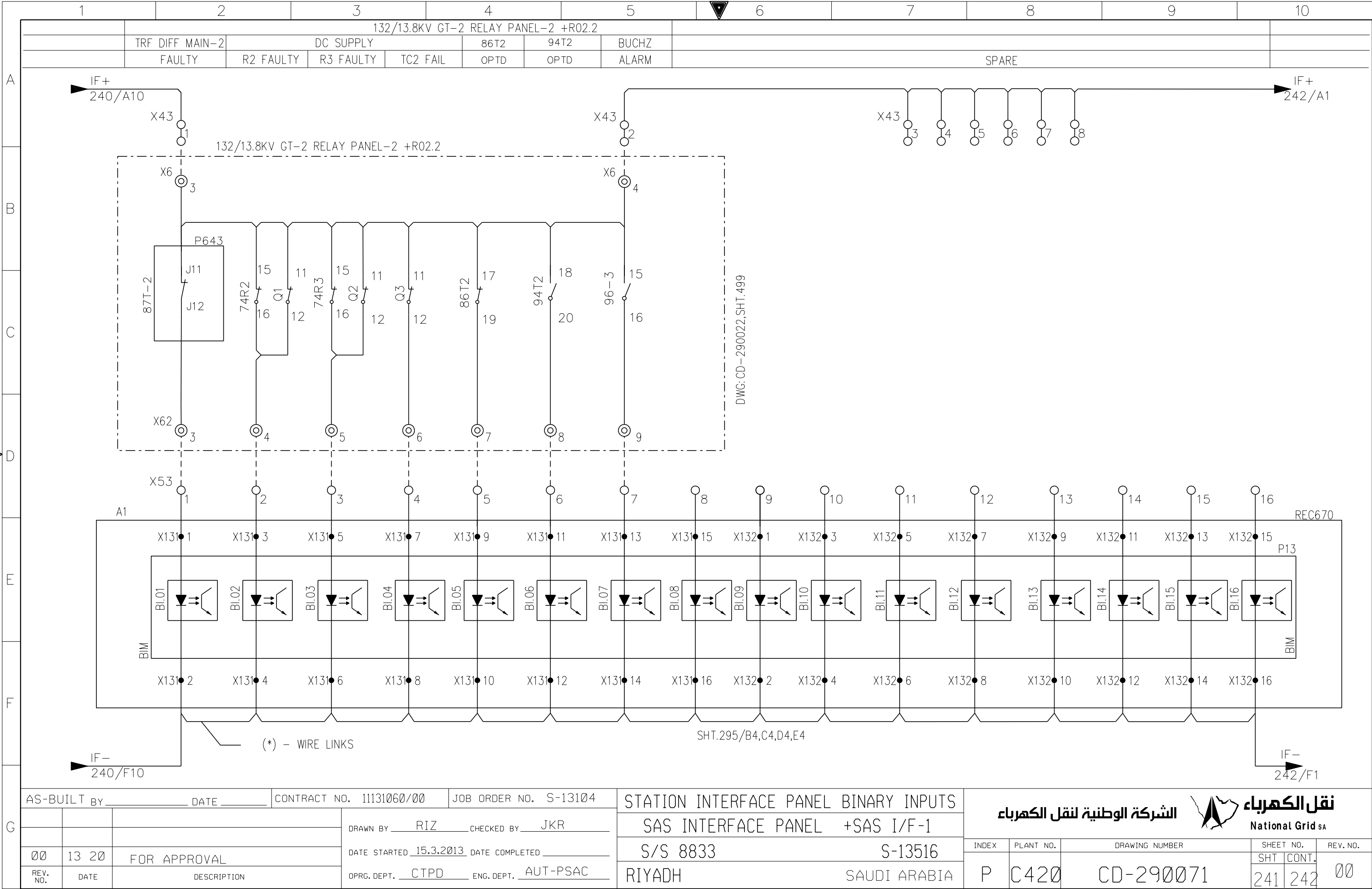




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AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131060/00 JOB ORDER NO. S-13104

DRAWN BY RIZ CHECKED BY JKR

DATE STARTED 15.3.2013 DATE COMPLETED _____

OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC

STATION INTERFACE PANEL BINARY INPUTS

SAS INTERFACE PANEL +SAS I/F-1

S/S 8833

S-13516

RIYADH

SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء



National Grid sa

INDEX

PLANT NO.

DRAWING NUMBER

SHEET NO.

REV. NO.

P

C420

CD-290071

241

242

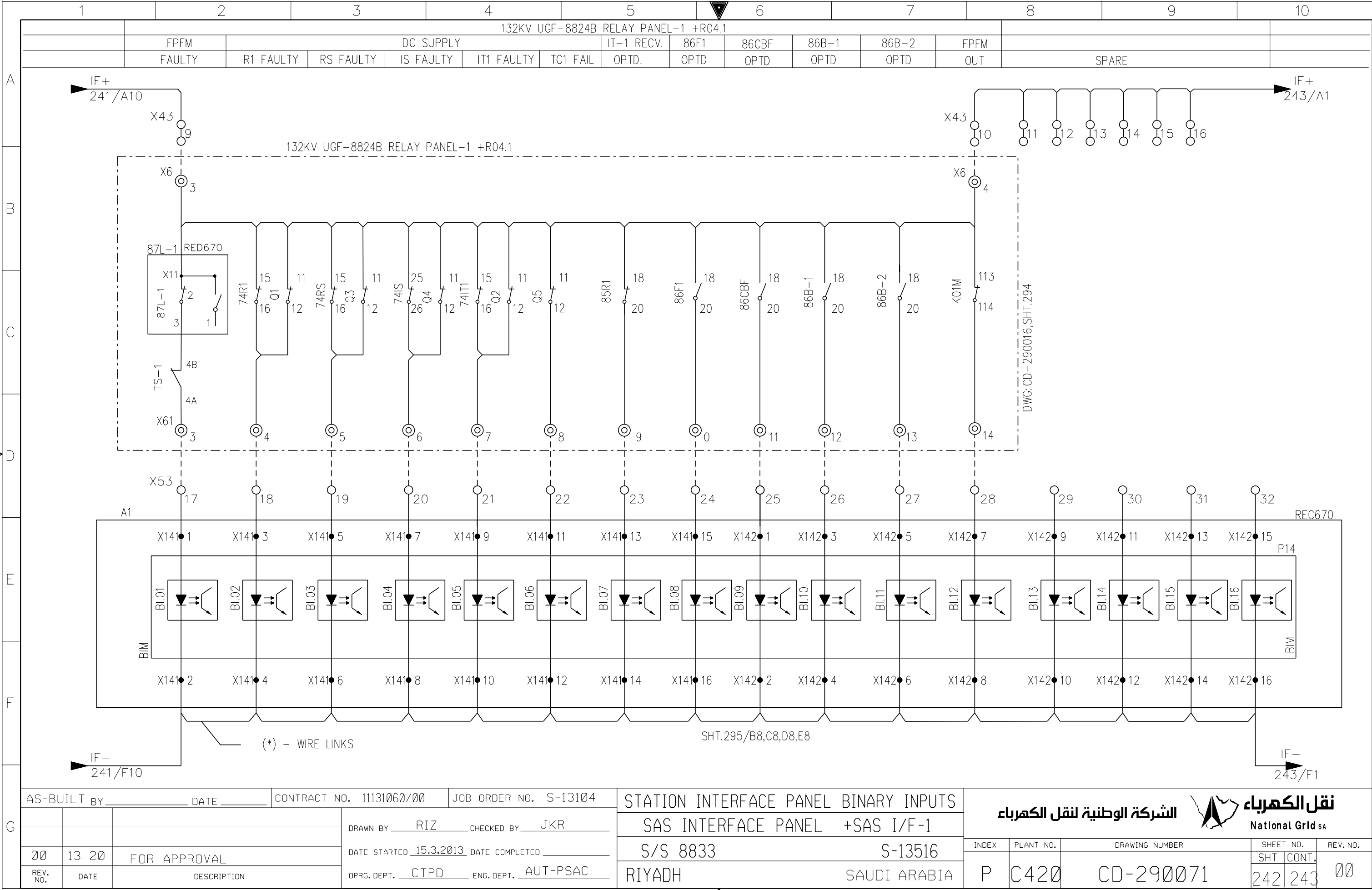
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NG/D2-D (2012/01)

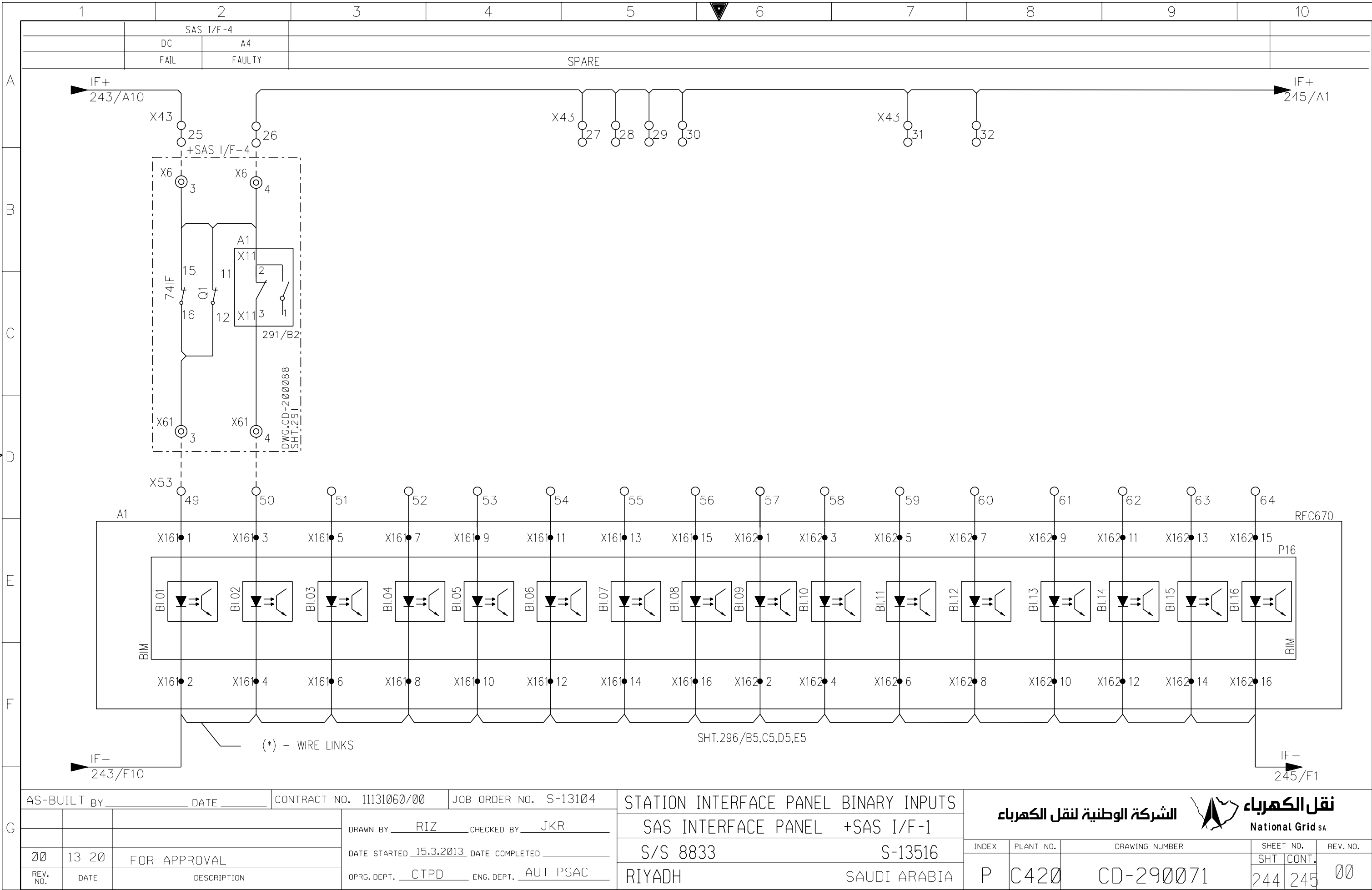
DMS

VECTOR

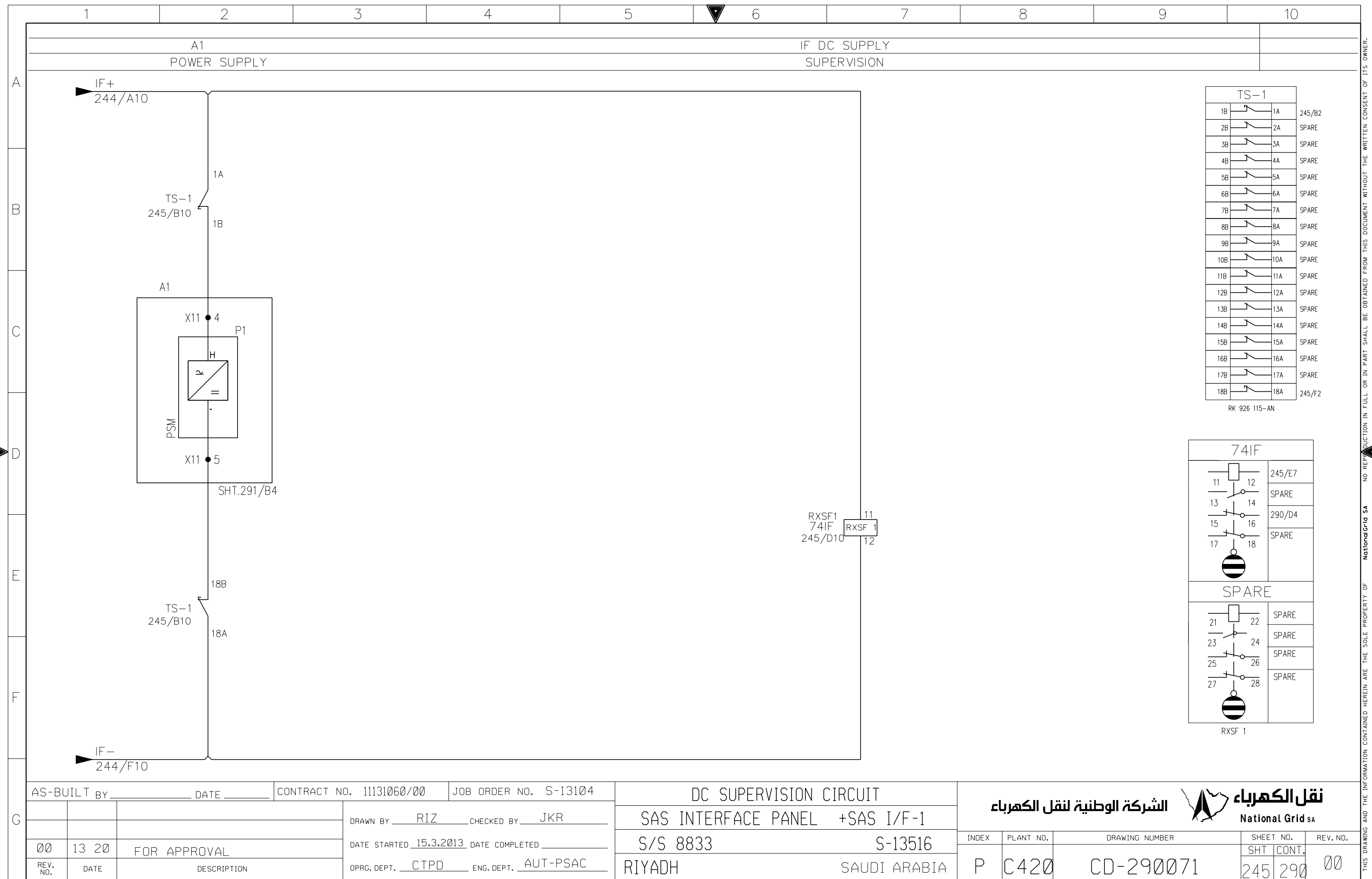
NGD200



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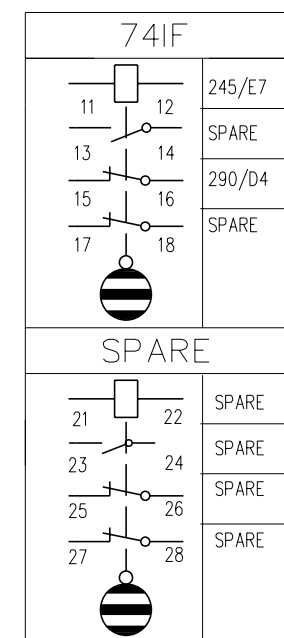


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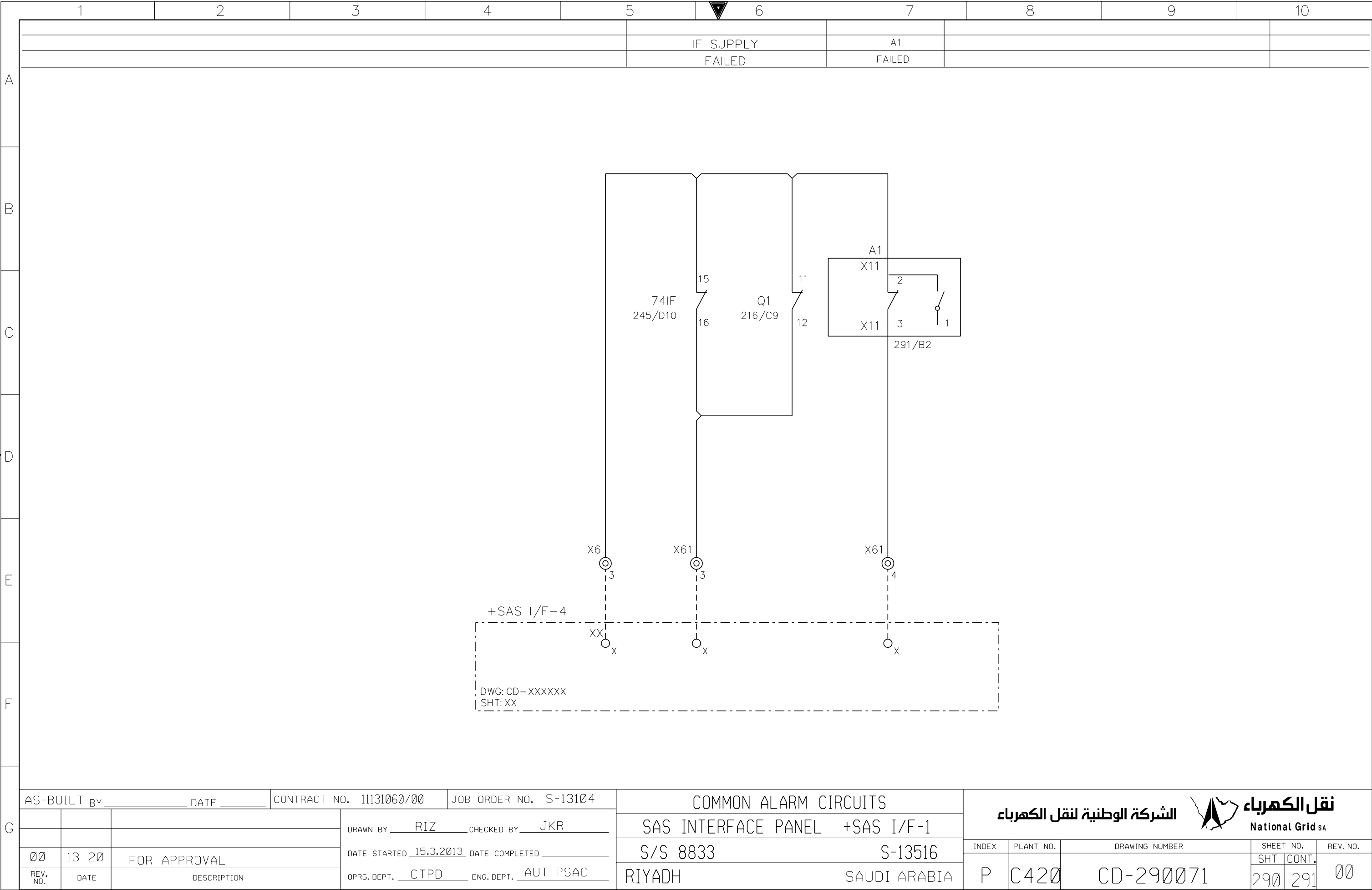


TS-1			
1B		1A	245/B2
2B		2A	SPARE
3B		3A	SPARE
4B		4A	SPARE
5B		5A	SPARE
6B		6A	SPARE
7B		7A	SPARE
8B		8A	SPARE
9B		9A	SPARE
10B		10A	SPARE
11B		11A	SPARE
12B		12A	SPARE
13B		13A	SPARE
14B		14A	SPARE
15B		15A	SPARE
16B		16A	SPARE
17B		17A	SPARE
18B		18A	245/F2

RK 926 115-AM



RXSF 1



	1	2	3	4	5	6	7	8	9	10
A	A1									
	BINARY INPUT CARD									
B	A1BIM P3 REC670									
	LOCATION=P3 PLANT ADAPTED CONFIGURATION									
C	X31									
	+ -- 1 BI.01 //									
	-- 2 BI.02 //									
	+ -- 3 BI.03 //									
	-- 4 BI.04 //									
	+ -- 5 BI.05 //									
	-- 6 BI.06 //									
	+ -- 7 BI.07 //									
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D	X32									
	+ -- 1 BI.09 //									
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	-- 16 BI.24 //									
E	X41									
	+ -- 1 BI.01 //									
	-- 2 BI.02 //									
	+ -- 3 BI.03 //									
	-- 4 BI.04 //									
	+ -- 5 BI.05 //									
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	X42									
	+ -- 1 BI.09 //									
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F	X51									
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	+ -- 3 BI.03 //									
	-- 4 BI.04 //									
	+ -- 5 BI.05 //									
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	X52									
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G	AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131060/00 JOB ORDER NO. S-13104									
	DRAWN BY RIZ CHECKED BY JKR									
	DATE STARTED 15.3.2013 DATE COMPLETED _____									
	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC									
	BLOCK REFERENCE									
	SAS INTERFACE PANEL +SAS I/F-1									
	S/S 8833 S-13516									
	RIYADH SAUDI ARABIA									
	الشركة الوطنية لنقل الكهرباء National Grid sa									
	INDEX PLANT NO. DRAWING NUMBER SHEET NO. REV. NO.									
	P C420 CD-290071 292 293 00									

	1	2	3	4	5	6	7	8	9	10
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	BINARY INPUT CARD									
B	A1BIM P3 REC670									
	LOCATION=P3 PLANT ADAPTED CONFIGURATION									
C	X61									
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	-- 2 BI.02 //									
	+ -- 3 BI.03 //									
	-- 4 BI.04 //									
	+ -- 5 BI.05 //									
	-- 6 BI.06 //									
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D	X62									
	+ -- 1 BI.09 //									
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E	X71									
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F	SHT.234/D1 TO D10									
	SHT.235/D1 TO D10									
	SHT.236/D1 TO D10									
G	AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131060/00 JOB ORDER NO. S-13104									
	DRAWN BY RIZ CHECKED BY JKR									
	DATE STARTED 15.3.2013 DATE COMPLETED _____									
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	BLOCK REFERENCE									
	SAS INTERFACE PANEL +SAS I/F-1									
	S/S 8833 S-13516									
	RIYADH SAUDI ARABIA									
	الشركة الوطنية لنقل الكهرباء									
	National Grid sa									
	INDEX PLANT NO. DRAWING NUMBER SHEET NO. REV. NO.									
	P C420 CD-290071 293 294 00									

	1	2	3	4	5	6	7	8	9	10
A	A1									
	BINARY INPUT CARD									
B	A1BIM P3 REC670									
	LOCATION=P3									
	PLANT ADAPTED CONFIGURATION									
C	A1BIM P3 REC670									
	LOCATION=P3									
	PLANT ADAPTED CONFIGURATION									
D	A1BIM P3 REC670									
	LOCATION=P3									
	PLANT ADAPTED CONFIGURATION									
E	A1BIM P3 REC670									
	LOCATION=P3									
	PLANT ADAPTED CONFIGURATION									
F	A1BIM P3 REC670									
	LOCATION=P3									
	PLANT ADAPTED CONFIGURATION									
G	AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131060/00 JOB ORDER NO. S-13104									
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	RIYADH SAUDI ARABIA									
	الشركة الوطنية لنقل الكهرباء National Grid sa									
	INDEX	PLANT NO.	DRAWING NUMBER				SHEET NO.		REV. NO.	
	P	C420	CD-290071				SHT	CONT.	00	
							294	295		

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A	A1									
	BINARY INPUT CARD									
B	A1BIM P3 REC670									
	LOCATION=P3 PLANT ADAPTED CONFIGURATION									
C	SHT.240/D1 TO D10									
D	SHT.241/D1 TO D10									
E	SHT.242/D1 TO D10									
F										
G	AS-BUILT BY _____ DATE _____ CONTRACT NO. 11131060/00 JOB ORDER NO. S-13104									
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	BLOCK REFERENCE									
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	الشركة الوطنية لنقل الكهرباء National Grid sa									
	INDEX	PLANT NO.	DRAWING NUMBER				SHEET NO.		REV. NO.	
	P	C420	CD-290071				SHT	CONT.	00	
							295	296		

	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A	<table><tr><td>INTERNAL REFERENCE</td><td>X3 AC CKT.</td></tr><tr><td>211/A3</td><td>1</td></tr><tr><td>211/B3</td><td>2</td></tr><tr><td>211/A3</td><td>3</td></tr><tr><td>211/B3</td><td>4</td></tr><tr><td>211/B3</td><td>5</td></tr><tr><td>211/C3</td><td>6</td></tr><tr><td>211/B3</td><td>7</td></tr><tr><td>211/C3</td><td>8</td></tr><tr><td>SPARE</td><td>9</td></tr><tr><td>SPARE</td><td>10</td></tr></table>	INTERNAL REFERENCE	X3 AC CKT.	211/A3	1	211/B3	2	211/A3	3	211/B3	4	211/B3	5	211/C3	6	211/B3	7	211/C3	8	SPARE	9	SPARE	10	<table><tr><td>INTERNAL REFERENCE</td><td>X51 CONTROL & PROTN.</td></tr><tr><td>231/D1</td><td>1</td></tr><tr><td>231/D2</td><td>2</td></tr><tr><td>231/D3</td><td>3</td></tr><tr><td>231/D3</td><td>4</td></tr><tr><td>231/D4</td><td>5</td></tr><tr><td>231/D4</td><td>6</td></tr><tr><td>231/D5</td><td>7</td></tr><tr><td>231/D5</td><td>8</td></tr><tr><td>231/D6</td><td>9</td></tr><tr><td>231/D6</td><td>10</td></tr><tr><td>231/D7</td><td>11</td></tr><tr><td>231/D8</td><td>12</td></tr><tr><td>231/D8</td><td>13</td></tr><tr><td>231/D9</td><td>14</td></tr><tr><td>231/D9</td><td>15</td></tr><tr><td>231/D10</td><td>16</td></tr><tr><td>232/D2</td><td>17</td></tr><tr><td>232/D2</td><td>18</td></tr><tr><td>232/D3</td><td>19</td></tr><tr><td>232/D3</td><td>20</td></tr><tr><td>232/D4</td><td>21</td></tr><tr><td>232/D4</td><td>22</td></tr><tr><td>232/D5</td><td>23</td></tr><tr><td>232/D5</td><td>24</td></tr><tr><td>232/D6</td><td>25</td></tr><tr><td>232/D6</td><td>26</td></tr><tr><td>232/D7</td><td>27</td></tr><tr><td>232/D8</td><td>28</td></tr><tr><td>232/D8</td><td>29</td></tr><tr><td>232/D9</td><td>30</td></tr><tr><td>232/D9</td><td>31</td></tr><tr><td>232/D10</td><td>32</td></tr><tr><td>233/D2</td><td>33</td></tr><tr><td>233/D2</td><td>34</td></tr><tr><td>233/D3</td><td>35</td></tr><tr><td>233/D3</td><td>36</td></tr><tr><td>233/D4</td><td>37</td></tr><tr><td>233/D4</td><td>38</td></tr><tr><td>233/D5</td><td>39</td></tr><tr><td>233/D5</td><td>40</td></tr><tr><td>233/D6</td><td>41</td></tr><tr><td>233/D6</td><td>42</td></tr><tr><td>233/D7</td><td>43</td></tr><tr><td>233/D8</td><td>44</td></tr><tr><td>233/D8</td><td>45</td></tr><tr><td>233/D9</td><td>46</td></tr><tr><td>233/D9</td><td>47</td></tr><tr><td>233/D10</td><td>48</td></tr><tr><td>234/D2</td><td>49</td></tr><tr><td>234/D2</td><td>50</td></tr></table>	INTERNAL REFERENCE	X51 CONTROL & PROTN.	231/D1	1	231/D2	2	231/D3	3	231/D3	4	231/D4	5	231/D4	6	231/D5	7	231/D5	8	231/D6	9	231/D6	10	231/D7	11	231/D8	12	231/D8	13	231/D9	14	231/D9	15	231/D10	16	232/D2	17	232/D2	18	232/D3	19	232/D3	20	232/D4	21	232/D4	22	232/D5	23	232/D5	24	232/D6	25	232/D6	26	232/D7	27	232/D8	28	232/D8	29	232/D9	30	232/D9	31	232/D10	32	233/D2	33	233/D2	34	233/D3	35	233/D3	36	233/D4	37	233/D4	38	233/D5	39	233/D5	40	233/D6	41	233/D6	42	233/D7	43	233/D8	44	233/D8	45	233/D9	46	233/D9	47	233/D10	48	234/D2	49	234/D2	50	<table><tr><td>INTERNAL REFERENCE</td><td>X51 CONTROL & PROTN.</td></tr><tr><td>234/D3</td><td>51</td></tr><tr><td>234/D3</td><td>52</td></tr><tr><td>234/D4</td><td>53</td></tr><tr><td>234/D4</td><td>54</td></tr><tr><td>234/D5</td><td>55</td></tr><tr><td>234/D5</td><td>56</td></tr><tr><td>234/D6</td><td>57</td></tr><tr><td>234/D6</td><td>58</td></tr><tr><td>234/D7</td><td>59</td></tr><tr><td>234/D8</td><td>60</td></tr><tr><td>234/D8</td><td>61</td></tr><tr><td>234/D9</td><td>62</td></tr><tr><td>234/D9</td><td>63</td></tr><tr><td>234/D10</td><td>64</td></tr><tr><td>235/D2</td><td>65</td></tr><tr><td>235/D2</td><td>66</td></tr><tr><td>235/D3</td><td>67</td></tr><tr><td>235/D3</td><td>68</td></tr><tr><td>235/D4</td><td>69</td></tr><tr><td>235/D4</td><td>70</td></tr><tr><td>235/D5</td><td>71</td></tr><tr><td>235/D5</td><td>72</td></tr><tr><td>235/D6</td><td>73</td></tr><tr><td>235/D6</td><td>74</td></tr><tr><td>235/D7</td><td>75</td></tr><tr><td>235/D8</td><td>76</td></tr><tr><td>235/D8</td><td>77</td></tr><tr><td>235/D9</td><td>78</td></tr><tr><td>235/D9</td><td>79</td></tr><tr><td>235/D10</td><td>80</td></tr><tr><td>SPARE</td><td>81</td></tr><tr><td>SPARE</td><td>82</td></tr><tr><td>SPARE</td><td>83</td></tr><tr><td>SPARE</td><td>84</td></tr><tr><td>SPARE</td><td>85</td></tr><tr><td>SPARE</td><td>86</td></tr><tr><td>SPARE</td><td>87</td></tr><tr><td>SPARE</td><td>88</td></tr><tr><td>SPARE</td><td>89</td></tr><tr><td>SPARE</td><td>90</td></tr></table>	INTERNAL REFERENCE	X51 CONTROL & PROTN.	234/D3	51	234/D3	52	234/D4	53	234/D4	54	234/D5	55	234/D5	56	234/D6	57	234/D6	58	234/D7	59	234/D8	60	234/D8	61	234/D9	62	234/D9	63	234/D10	64	235/D2	65	235/D2	66	235/D3	67	235/D3	68	235/D4	69	235/D4	70	235/D5	71	235/D5	72	235/D6	73	235/D6	74	235/D7	75	235/D8	76	235/D8	77	235/D9	78	235/D9	79	235/D10	80	SPARE	81	SPARE	82	SPARE	83	SPARE	84	SPARE	85	SPARE	86	SPARE	87	SPARE	88	SPARE	89	SPARE	90	<table><tr><td>INTERNAL REFERENCE</td><td>X41 DC 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